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BUREAU OF THE CENSUS

Manufacturers' Shipments, Inventories, and Orders

September 1999

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For Data - (301) 457-4673
For Questions - Frances Porter or Lee Wentela
(301) 457-4804 or (301) 457-4832

All figures in text are in seasonally adjusted current dollars

Summary

New orders for manufactured goods in September decreased \$3.3 billion or 0.9 percent to \$361.1 billion, the Department of Commerce, Bureau of the Census reported today. This follows a 1.3 percent August increase and is the first decrease since April. Excluding transportation, new orders decreased 0.4 percent, the first decrease since May. Year-to-date, new orders are 5.1 percent above the same period a year ago; new orders for the third quarter are 3.9 percent above the second quarter.

Shipments decreased \$3.0 billion or 0.8 percent to \$358.9 billion, following a 1.3 percent August increase. This is the first decrease since April. Year-to-date, shipments are 4.7 percent above the same period a year ago; shipments for the third quarter are 2.4 percent above the second quarter.

Unfilled orders increased \$2.2 billion or 0.4 percent to \$525.5 billion, following a 0.5 percent August increase. The unfilled orders-to-shipments ratio was 2.58, up from 2.53 in August.

Inventories increased \$1.0 billion or 0.2 percent to \$465.3 billion, following a 0.1 percent August decrease. The inventories-to-shipments ratio was 1.30, up from 1.28 in August.

New Orders

New orders for manufactured durable goods in September decreased \$2.7 billion or 1.3 percent to \$204.7 billion, unrevised from the previously published 1.3 percent decrease. This is the first decrease since April.

Transportation equipment, led by aircraft and parts and motor vehicles and parts, had the largest decrease, \$2.1 billion or 4.2 percent to \$46.9 billion. This is the first decrease since April. Fabricated metal products, down for the first time since April, decreased \$0.6 billion or 2.7 percent to \$20.3 billion. Industrial machinery and equipment, down four of the last five months, decreased \$0.3 billion or 0.7 percent to \$38.8 billion. Electronic and other electrical equipment, up four consecutive months, increased \$0.5 billion or 1.3 percent to \$39.1 billion.

New orders for nondurable goods, down for the first time since April, decreased \$0.6 billion or 0.4 percent to \$156.4 billion. Paper and allied products had the largest decrease.

Shipments

Shipments of durable goods in September decreased \$3.6 billion or 1.8 percent to \$202.1 billion, revised from the previously published 1.9 percent decrease. This is the largest decrease since January 1998 and the first since April.

Transportation equipment, led by aircraft and parts and motor vehicles and parts, had the largest decrease, \$2.2 billion or 4.3 percent to \$48.8 billion. This is the largest decrease since June 1998. Industrial machinery and equipment decreased \$1.2 billion or 3.0 percent to \$37.5 billion. This is the largest decrease since January 1994. Fabricated metal products decreased \$0.4 billion or 1.8 percent to \$20.4 billion. This is the largest decrease since May 1997. Instruments and related products, up four of the last five months, increased \$0.2 billion or 1.3 percent to \$14.7 billion.

Shipments of nondurable goods increased \$0.6 billion or 0.4 percent to \$156.8 billion. This is the seventh increase in the last eight months. Petroleum and coal products, up eight consecutive months, increased \$0.5 billion or 3.1 percent to \$15.7 billion. Food and kindred products, up four of the last five months, increased \$0.4 billion or 0.9 percent to \$42.1 billion.

Unfilled Orders

Unfilled orders for durable goods in September increased \$2.6 billion or 0.5 percent to \$500.5 billion, revised from the previously published 0.6 percent increase. Electronic and other electrical equipment, up ten consecutive months, had the largest increase, \$3.7 billion or 5.1 percent to \$75.7 billion. This is the largest increase since August 1997. Industrial machinery and equipment, up nine of the last ten months, increased \$1.3 billion or 1.7 percent to \$80.8 billion. Transportation equipment, down fifteen of the last seventeen months, decreased \$1.8 billion or 0.8 percent to \$226.3 billion. Instruments and related products, down four consecutive months, decreased \$0.5 billion or 1.1 percent to \$46.2 billion.

Inventories

Inventories of durable goods in September increased \$0.3 billion or 0.1 percent to \$292.7 billion.

Industrial machinery and equipment had the largest increase, \$0.2 billion or 0.4 percent to \$60.2 billion.

Inventories of nondurable goods, up six of the last seven months, increased \$0.7 billion or 0.4 percent to \$172.6 billion. Petroleum and related products, up seven consecutive months, had the largest increase, \$0.3 billion or 2.3 percent to \$11.8 billion.

By stage of fabrication, September finished goods decreased 0.3 percent in durables and increased 0.3 percent in nondurables. Work in process increased slightly in durables and increased 0.4 percent in nondurables. Materials and supplies increased 0.5 percent in durables and 0.6 percent in nondurables.

Our internet address is: <http://www.census.gov/indicator/www/m3>

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted ¹						
	Monthly			Percent Change			Monthly				Percent change	Year to date	
	Sept. 1999 ^a	Aug. 1999 ^a	July 1999	Aug.-Sept.	July-Aug.	June-July	Sept. 1999 ^a	Aug. 1999 ^a	July 1999	Sept. 1998	Sept. 99/98	1999 ^a	1998
All manufacturing industries	358,874	361,844	357,301	-0.8	+1.3	+0.7	383,967	363,407	320,282	364,324	+5.4	3,158,908	3,018,261
Manufacturing Industries													
with unfilled orders	203,504	206,643	204,202	-1.5	+1.2	+1.5	220,853	204,760	181,081	213,090	+3.6	1,798,149	1,729,912
without defense capital goods . . .	352,471	355,376	350,717	-0.8	+1.3	+0.7	377,191	357,194	314,532	357,231	+5.6	3,101,376	2,960,330
Durable goods industries	202,109	205,709	203,268	-1.8	+1.2	+1.1	218,977	203,223	171,249	209,036	+4.8	1,787,187	1,683,910
With unfilled orders	165,672	168,889	166,506	-1.9	+1.4	+1.6	180,741	165,533	144,441	173,973	+3.9	1,463,824	1,393,222
Stone, clay, and glass products	8,921	8,859	8,578	+0.7	+3.3	0.0	9,523	9,358	8,641	8,608	+10.6	77,548	71,990
Primary metals	15,323	15,204	14,903	+0.8	+2.0	+1.5	15,869	15,298	13,574	15,402	+3.0	133,330	139,127
Blast furnaces, steel mills	5,810	5,824	5,681	-0.2	+2.5	+1.2	5,949	5,897	5,169	6,003	-0.9	51,338	56,697
Iron and steel foundries	1,552	1,554	1,566	-0.1	-0.8	+2.0	1,627	1,575	1,321	1,590	+2.3	13,959	13,696
Nonferrous and other primary metals	7,961	7,826	7,656	+1.7	+2.2	+1.7	8,293	7,826	7,084	7,809	+6.2	68,033	68,734
Fabricated metal products	20,397	20,781	20,394	-1.8	+1.9	-0.7	21,547	21,368	18,208	21,460	+0.4	184,631	178,897
Industrial machinery and equipment . .	37,516	38,691	39,434	-3.0	-1.9	+5.7	41,450	36,108	34,097	40,690	+1.9	337,787	332,213
Engines and turbines	2,604	2,732	2,566	-4.7	+6.5	+3.9	2,893	2,467	1,860	2,468	+17.2	21,696	19,653
Farm and garden machinery	1,706	1,753	1,761	-2.7	-0.5	-0.1	1,550	1,416	1,420	1,744	-11.1	17,793	19,661
Construction, mining and material handling equipment	3,794	3,743	3,788	+1.4	-1.2	-2.1	3,845	3,569	3,544	4,280	-10.2	35,394	38,780
Metalworking machinery	3,746	3,712	3,635	+0.9	+2.1	+2.4	4,302	3,553	3,054	3,981	+8.1	31,389	30,324
Computer and office equipment . . .	11,024	11,972	13,126	-7.9	-8.8	+17.6	13,744	10,849	10,641	13,791	-0.3	101,744	95,402
Electronic and other electrical equipment	35,447	35,339	35,373	+0.3	-0.1	+3.4	40,375	34,123	30,909	36,667	+10.1	300,634	272,586
Electrical transmission and distribution equipment and industrial apparatus	4,039	4,141	3,970	-2.5	+4.3	+7.0	4,583	4,088	3,582	4,417	+3.8	34,765	33,355
Household appliances	2,222	2,432	2,418	-8.6	+0.6	+3.0	2,344	2,474	2,253	2,279	+2.9	21,284	18,829
Electric lighting and wiring equipment	2,544	2,539	2,447	+0.2	+3.8	-2.5	2,868	2,536	2,046	2,540	+12.9	21,355	19,890
Household audio and video equipment	1,082	1,090	1,119	-0.7	-2.6	+3.8	1,278	1,138	998	1,188	+7.6	9,134	8,653
Communications equipment	8,989	8,723	8,856	+3.0	-1.5	+3.8	10,521	7,679	7,530	8,803	+19.5	72,701	60,865
Electronic components	14,274	14,071	14,266	+1.4	-1.4	+3.9	16,141	13,894	12,711	14,870	+8.5	121,685	112,320
Transportation equipment	48,779	50,980	48,816	-4.3	+4.4	-1.9	51,616	51,079	32,697	49,441	+4.4	434,502	388,809
Motor vehicles and parts	34,139	34,669	34,550	-1.5	+0.3	-0.8	35,935	35,318	20,450	32,753	+9.7	299,155	263,096
Aircraft, missiles, space vehicles, and parts	10,861	12,808	10,879	-15.2	+17.7	-3.9	11,499	12,132	9,299	12,771	-10.0	104,155	97,546
Shipbuilding and tanks	1,222	1,056	981	+15.7	+7.6	+7.8	1,302	1,027	903	1,108	+17.5	8,906	8,402
Instruments and related products	14,655	14,474	14,340	+1.3	+0.9	-1.9	16,210	13,975	12,834	15,714	+3.2	128,484	125,315
Search and navigation equipment . . .	3,095	3,125	3,207	-1.0	-2.6	+0.2	3,377	3,014	2,877	3,378	0.0	28,042	27,138
Measuring and controlling devices . .	4,205	4,257	4,165	-1.2	+2.2	+1.1	4,593	4,217	3,669	4,396	+4.5	37,065	36,439
Medical instruments and supplies . .	4,976	4,759	4,696	+4.6	+1.3	-5.0	5,570	4,528	4,221	5,135	+8.5	42,913	40,172
Photographic goods	1,883	1,835	1,813	+2.6	+1.2	-3.2	2,149	1,719	1,619	2,328	-7.7	16,076	17,445
All other durable goods	21,071	21,381	21,430	-1.4	-0.2	+0.6	22,387	21,914	20,288	21,054	+6.3	190,270	174,973
Nondurable goods industries	156,765	156,135	154,033	+0.4	+1.4	+0.2	164,990	160,184	149,033	155,288	+6.2	1,371,721	1,334,351
With unfilled orders	37,832	37,754	37,696	+0.2	+0.2	+0.7	40,112	39,227	36,640	39,117	+2.5	334,325	336,690
Food and kindred products	42,133	41,767	41,309	+0.9	+1.1	-1.8	44,103	42,498	39,577	43,044	+2.5	372,273	364,458
Meat products	9,133	9,061	8,775	+0.8	+3.3	-2.9	9,440	9,419	8,678	8,946	+5.5	79,150	78,406
Dairy products	6,536	6,511	6,273	+0.4	+3.8	-3.1	6,731	6,535	5,909	6,752	-0.3	57,919	54,932
Beverages	6,388	6,333	6,314	+0.9	+0.3	-0.2	6,590	6,815	6,621	6,381	+3.3	57,479	55,505
All other foods, except fats and oils .	18,265	18,138	18,246	+0.7	-0.6	-0.8	19,531	18,005	16,668	18,954	+3.0	161,208	157,035
Tobacco products	4,278	4,257	4,265	+0.5	-0.2	+0.8	4,157	4,319	4,157	3,522	+18.0	37,426	30,708
Textile mill products	6,474	6,514	6,540	-0.6	-0.4	+1.4	7,139	6,912	6,045	7,129	+0.1	58,807	61,430
Broadwoven fabrics and other textiles	3,620	3,657	3,713	-1.0	-1.5	-0.5	3,983	3,765	3,253	4,311	-7.6	33,661	37,287
Paper and allied products	13,887	13,949	13,575	-0.4	+2.8	+0.9	14,348	14,220	13,208	13,981	+2.6	122,385	125,142
Pulp, paper, and paperboard mill products	5,407	5,470	5,244	-1.2	+4.3	+1.0	5,540	5,605	5,162	5,256	+5.4	47,002	48,423
Paperboard containers and boxes . .	3,529	3,570	3,391	-1.1	+5.3	+1.9	3,618	3,669	3,275	3,527	+2.6	30,554	32,564
Miscellaneous converted paper products	4,951	4,909	4,940	+0.9	-0.6	0.0	5,190	4,946	4,771	5,198	-0.2	44,829	44,155
Chemicals and allied products	34,917	35,028	34,569	-0.3	+1.3	+0.2	36,414	34,532	33,033	34,084	+6.8	308,078	295,829
Industrial chemicals	15,575	15,296	15,267	+1.8	+0.2	+1.3	15,978	15,274	14,960	14,920	+7.1	135,974	137,328
Drugs, soaps, and toiletries	15,450	15,731	15,448	-1.8	+1.8	0.0	17,072	15,639	14,495	15,956	+7.0	135,345	121,815
Petroleum and coal products	15,697	15,218	14,563	+3.1	+4.5	+6.3	16,667	16,227	15,083	12,436	+34.0	120,813	111,653
Rubber and plastics products	13,676	13,839	13,376	-1.2	+3.5	-1.7	14,265	14,131	12,292	13,875	+2.8	123,476	119,665
All other nondurable goods	25,703	25,563	25,836	+0.5	-1.1	+0.4	27,897	27,345	25,638	27,217	+2.5	228,463	225,466

^a Preliminary. ¹ Revised.

¹ Shipments and new orders are the totals for the period and are adjusted for trading day and calendar month variations.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted ¹						
	Monthly			Percent Change			Monthly				Percent change	Year to date	
	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Aug.-Sept.	July-Aug.	June-July	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Sept. 1998		1999 ^p	1998
All manufacturing industries	361,094	364,440	359,903	-0.9	+1.3	+2.5	380,446	365,069	328,590	359,884	+5.7	3,167,374	3,012,093
Manufacturing industries													
with unfilled orders	205,724	209,239	206,804	-1.7	+1.2	+4.6	217,332	206,422	189,389	208,650	+4.2	1,806,615	1,723,744
without defense capital goods	356,081	359,392	353,427	-0.9	+1.7	+2.2	375,450	361,402	323,524	352,355	+6.6	3,116,177	2,960,936
Durable goods industries	204,732	207,446	205,532	-1.3	+0.9	+4.3	216,658	204,162	178,540	205,297	+5.5	1,793,312	1,678,688
With unfilled orders	168,295	170,626	168,770	-1.4	+1.1	+5.5	178,422	166,472	151,732	170,234	+4.8	1,469,949	1,388,000
Stone, clay, and glass products	8,894	8,804	8,520	+1.0	+3.3	-0.1	9,476	9,265	8,593	8,541	+10.9	77,415	72,229
Primary metals	15,547	15,659	15,730	-0.7	-0.5	+3.4	15,347	15,558	14,435	13,789	+11.3	135,765	134,451
Blast furnaces, steel mills	5,916	6,065	5,872	-2.5	+3.3	-0.2	5,610	5,990	5,307	5,088	+10.3	52,631	54,025
Iron and steel foundries	1,452	1,632	1,621	-11.0	+0.7	+15.8	1,439	1,662	1,334	1,378	+4.4	13,341	13,593
Nonferrous and other primary metals	8,179	7,962	8,237	+2.7	-3.3	+4.0	8,298	7,906	7,794	7,323	+13.3	69,793	66,833
Fabricated metal products	20,258	20,814	20,286	-2.7	+2.6	0.0	21,136	21,361	18,325	20,918	+1.0	184,282	178,794
Industrial machinery and equipment	38,829	39,110	40,257	-0.7	-2.8	+10.5	42,762	36,479	35,206	43,032	-0.6	343,547	333,635
Engines and turbines	3,687	2,998	2,906	+23.0	+3.2	+49.6	4,452	2,897	2,428	6,143	-27.5	27,026	23,700
Construction, mining and material handling equipment	3,679	3,674	3,695	+0.1	-0.6	+2.0	3,685	3,302	3,235	3,905	-5.6	34,193	38,308
Metalworking machinery	3,940	3,751	3,925	+5.0	-4.4	+14.5	4,496	3,592	3,344	3,781	+18.9	32,147	30,310
Computer and office equipment	11,171	12,112	13,281	-7.8	-8.8	+17.7	13,734	10,956	11,047	13,623	+0.8	102,487	95,766
Electronic and other electrical equipment	39,129	38,616	37,976	+1.3	+1.7	+8.0	41,110	37,824	37,743	34,517	+19.1	317,291	276,826
Electrical transmission and distribution equipment and industrial apparatus	3,992	4,452	4,047	-10.3	+10.0	+8.3	4,410	4,436	3,671	4,221	+4.5	35,269	33,092
Electric lighting and wiring equipment	2,248	2,466	2,523	-8.8	-2.3	-6.1	2,572	2,463	2,122	2,340	+9.9	21,339	19,949
Communications equipment	9,964	8,361	8,899	+19.2	-6.0	+3.0	11,516	7,295	7,578	9,120	+26.3	74,387	63,641
Electronic components	17,155	17,604	16,694	-2.6	+5.5	+16.7	16,210	17,722	19,370	12,937	+25.3	136,229	114,255
Transportation equipment	46,929	49,000	47,235	-4.2	+3.7	+2.1	49,280	48,278	31,128	47,885	+2.9	416,986	384,418
Aircraft, missiles, space vehicles, and parts	9,575	11,415	10,302	-16.1	+10.8	+13.0	9,861	9,845	8,490	9,924	-0.6	90,798	93,183
Shipbuilding and tanks	790	577	680	+36.9	-15.1	147.3	891	537	575	2,217	-59.8	7,855	8,019
Instruments and related products	14,140	14,111	14,166	+0.2	-0.4	+2.0	15,419	13,632	12,629	15,653	-1.5	127,040	123,138
Search and navigation equipment	2,703	2,813	2,875	-3.9	-2.2	-7.0	2,927	2,492	2,196	3,407	-14.1	26,711	25,004
Measuring and controlling devices	4,229	4,082	4,165	+3.6	-2.0	+2.3	4,617	4,042	3,669	4,324	+6.8	37,054	35,797
Medical instruments and supplies	4,833	4,867	4,836	-0.7	+0.6	+9.9	5,213	4,874	4,683	5,150	+1.2	42,930	41,403
All other durable goods	21,006	21,332	21,362	-1.5	-0.1	+0.1	22,128	21,765	20,531	20,962	+5.6	191,036	175,197
Nondurable goods industries	156,362	156,994	154,371	-0.4	+1.7	+0.2	163,788	160,907	150,050	154,587	+6.0	1,374,062	1,333,405
With unfilled orders	37,429	38,613	38,034	-3.1	+1.5	+0.7	38,910	39,950	37,657	38,416	+1.3	336,666	335,744

^p Preliminary. ^r Revised.

¹ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

(n) When new orders for a prior month are negative because of cancellations, the percentage change calculation is algebraically negative, even though there is a net dollar increase from the prior month to the current month.

Note : Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey error is nonsampling error, which includes errors of coverage, response, and nonreporting. Since the survey panel is not a probability sample, estimates of sampling error cannot be calculated. Further details on survey design, methodology, and data limitations are contained in our most recent annual benchmark publication, Current Industrial Reports: M3-1(96), "Manufacturers' Shipments, Inventories, and Orders: 1987-1996."

Table 3. VALUE OF MANUFACTURERS' UNFULFILLED ORDERS FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Sept. 99/98
	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Aug.- Sept.	July- Aug.	June- July	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Sept. 1998	
All manufacturing industries	525,482	523,262	520,666	+0.4	+0.5	+0.5	521,503	525,024	523,311	525,390	-0.7
Manufacturing industries without defense capital goods	434,494	430,884	426,868	+0.8	+0.9	+0.6	432,125	433,866	429,607	429,948	+0.5
Durable goods industries	500,512	497,889	496,152	+0.5	+0.4	+0.5	496,216	498,535	497,545	501,112	-1.0
Stone, clay, and glass products	5,942	5,969	6,024	-0.5	-0.9	-1.0	5,938	5,985	6,078	6,415	-7.4
Primary metals	32,175	31,951	31,496	+0.7	+1.4	+2.7	31,282	31,804	31,544	29,662	+5.5
Blast furnaces, steel mills	12,881	12,775	12,534	+0.8	+1.9	+1.5	12,328	12,667	12,574	11,686	+5.5
Iron and steel foundries	4,871	4,971	4,893	-2.0	+1.6	+1.1	4,734	4,922	4,835	5,373	-11.9
Nonferrous and other primary metals	14,423	14,205	14,069	+1.5	+1.0	+4.3	14,220	14,215	14,135	12,603	+12.8
Fabricated metal products	25,094	25,233	25,200	-0.6	+0.1	-0.4	25,085	25,496	25,503	26,247	-4.4
Industrial machinery and equipment	80,791	79,478	79,059	+1.7	+0.5	+1.1	80,201	78,889	78,518	74,847	+7.2
Engines and turbines	23,864	22,781	22,515	+4.8	+1.2	+1.5	24,055	22,496	22,066	16,581	+45.1
Construction, mining and material handling equipment	8,811	8,926	8,995	-1.3	-0.8	-1.0	8,432	8,592	8,859	9,894	-14.8
Metalworking machinery	7,204	7,010	6,971	+2.8	+0.6	+4.3	7,204	7,010	6,971	7,135	+1.0
Computer and office equipment	8,626	8,479	8,339	+1.7	+1.7	+1.9	8,684	8,694	8,587	7,996	+8.6
Electronic and other electrical equipment	75,707	72,025	68,748	+5.1	+4.8	+3.9	74,463	73,728	70,027	57,546	+29.4
Electrical transmission and distribution equipment and industrial apparatus	6,771	6,818	6,507	-0.7	+4.8	+1.2	6,685	6,858	6,510	6,255	+6.9
Electric lighting and wiring equipment	5,006	5,302	5,375	-5.6	-1.4	+1.4	5,006	5,302	5,375	4,986	+0.4
Communications equipment	18,769	17,794	18,156	+5.5	-2.0	+0.2	18,743	17,748	18,132	17,107	+9.6
Electronic components	39,285	36,404	32,871	+7.9	+10.7	+8.0	38,199	38,130	34,302	23,475	+62.7
Transportation equipment	226,334	228,184	230,164	-0.8	-0.9	-0.7	225,068	227,404	230,205	250,126	-10.0
Aircraft, missiles, space vehicles, and parts	191,907	193,193	194,586	-0.7	-0.7	-0.3	190,651	192,289	194,576	213,757	-10.8
Shipbuilding and tanks	18,216	18,648	19,127	-2.3	-2.5	-1.5	18,271	18,682	19,172	18,047	+1.2
Instruments and related products	46,171	46,686	47,049	-1.1	-0.8	-0.4	45,741	46,532	46,875	47,952	-4.6
Search and navigation equipment	25,425	25,817	26,129	-1.5	-1.2	-1.3	25,097	25,547	26,069	27,109	-7.4
Measuring and controlling devices	10,174	10,150	10,325	+0.2	-1.7	0.0	10,174	10,150	10,325	10,211	-0.4
Medical instruments and supplies	9,706	9,849	9,741	-1.5	+1.1	+1.5	9,603	9,960	9,614	9,655	-0.5
All other durable goods	8,298	8,363	8,412	-0.8	-0.6	-0.8	8,438	8,697	8,846	8,317	+1.5
Non durable goods industries	24,970	25,373	24,514	-1.6	+3.5	+1.4	25,287	26,489	25,766	24,278	+4.2

^p Preliminary. ^r Revised.

See note at end of table 2 relating to survey error and revision.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Sept. 99/98
	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Aug.-Sept.	July-Aug.	June-July	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Sept. 1998	
All manufacturing industries	465,346	464,351	465,043	+0.2	-0.1	+0.5	464,876	467,794	466,518	467,407	-0.5
Manufacturing industries with unfilled orders	308,828	308,152	309,105	+0.2	-0.3	+0.5	308,661	312,270	311,804	314,283	-1.8
without defense capital goods	446,550	445,755	446,435	+0.2	-0.2	+0.5	445,804	448,795	447,496	448,400	-0.6
Durable goods industries	292,726	292,461	293,505	+0.1	-0.4	+0.6	292,103	295,746	294,993	295,733	-1.2
With unfilled orders	268,270	267,761	268,648	+0.2	-0.3	+0.6	267,976	271,238	270,594	272,462	-1.6
Stone, clay, and glass products	9,716	9,726	9,473	-0.1	+2.7	+0.8	9,546	9,692	9,514	9,049	+5.5
Primary metals	23,599	23,660	23,693	-0.3	-0.1	+0.1	23,667	23,786	23,797	24,912	-5.0
Blast furnaces, steel mills	11,225	11,317	11,396	-0.8	-0.7	-0.6	11,322	11,411	11,451	12,464	-9.2
Iron and steel foundries	1,571	1,595	1,605	-1.5	-0.6	-0.4	1,536	1,568	1,591	1,540	-0.3
Nonferrous and other primary metals	10,803	10,748	10,692	+0.5	+0.5	+0.9	10,809	10,807	10,755	10,908	-0.9
Fabricated metal products	31,216	31,028	31,005	+0.6	+0.1	+0.9	31,039	31,049	31,198	30,831	+0.7
Industrial machinery and equipment	60,209	59,990	59,791	+0.4	+0.3	-0.1	59,752	60,718	59,753	60,425	-1.1
Engines and turbines	4,462	4,468	4,490	-0.1	-0.5	+5.1	4,475	4,684	4,550	4,055	+10.4
Farm and garden machinery	3,600	3,560	3,530	+1.1	+0.8	-2.0	3,363	3,298	3,261	3,546	-5.2
Construction, mining and material handling equipment	8,842	8,840	8,877	0.0	-0.4	0.0	8,696	8,740	8,781	8,694	0.0
Metalworking machinery	8,117	8,006	8,010	+1.4	0.0	-1.3	8,290	8,353	8,218	8,115	+2.2
Computer and office equipment	9,278	9,169	8,765	+1.2	+4.6	-2.7	9,147	9,715	8,916	9,073	+0.8
Electronic and other electrical equipment	41,209	41,204	41,221	0.0	0.0	+0.5	40,913	42,028	41,832	39,852	+2.7
Electrical transmission and distribution equipment and industrial apparatus	5,209	5,253	5,242	-0.8	+0.2	+0.5	5,134	5,264	5,226	5,208	-1.4
Household appliances	2,392	2,336	2,384	+2.4	-2.0	-1.1	2,281	2,283	2,399	2,285	-0.2
Electric lighting and wiring equipment	3,688	3,604	3,570	+2.3	+1.0	+0.1	3,664	3,680	3,664	3,454	+6.1
Household audio and video equipment	1,066	1,023	1,136	+4.2	-9.9	+8.9	1,140	1,122	1,268	1,111	+2.6
Communications equipment	10,911	10,818	10,749	+0.9	+0.6	+0.2	10,942	11,112	10,929	10,309	+6.1
Electronic components	14,342	14,561	14,481	-1.5	+0.6	+0.2	14,144	14,814	14,552	13,871	+2.0
Transportation equipment	70,809	70,868	72,403	-0.1	-2.1	+1.1	71,165	71,927	72,712	75,935	-6.3
Motor vehicles and parts	17,402	17,569	17,677	-1.0	-0.6	+0.5	17,494	17,955	17,942	16,889	+3.6
Aircraft, missiles, space vehicles, and parts	47,380	47,082	48,623	+0.6	-3.2	+1.2	47,690	47,669	48,611	53,512	-10.9
Shipbuilding and tanks	2,213	2,266	2,224	-2.3	+1.9	+0.7	2,206	2,278	2,220	1,843	+19.7
Instruments and related products	27,113	27,060	26,930	+0.2	+0.5	+1.3	27,108	27,591	27,276	26,545	+2.1
Search and navigation equipment	6,857	6,789	6,788	+1.0	0.0	+1.4	6,850	6,974	7,015	6,674	+2.6
Measuring and controlling devices	8,368	8,267	8,122	+1.2	+1.8	+1.2	8,352	8,402	8,191	7,975	+4.7
Medical instruments and supplies	8,801	8,842	8,838	-0.5	0.0	+1.3	8,760	9,008	8,899	8,470	+3.4
Photographic goods	2,328	2,406	2,433	-3.2	-1.1	+0.4	2,401	2,454	2,423	2,734	-12.2
All other durable goods	28,855	28,925	28,989	-0.2	-0.2	+0.7	28,913	28,955	28,911	28,184	+2.6
Nondurable goods industries	172,620	171,890	171,538	+0.4	+0.2	+0.3	172,773	172,048	171,525	171,674	+0.6
With unfilled orders	40,558	40,391	40,457	+0.4	-0.2	-0.6	40,685	41,032	41,210	41,821	-2.7
Food and kindred products	38,086	38,018	38,019	+0.2	0.0	0.0	38,958	37,693	36,946	37,919	+2.7
Meat products	4,400	4,340	4,285	+1.4	+1.3	+0.7	4,349	4,251	4,304	3,976	+9.4
Dairy products	3,884	3,909	3,875	-0.6	+0.9	0.0	3,853	3,979	3,998	3,745	+2.9
Beverages	8,601	8,726	8,695	-1.4	+0.4	-1.2	8,696	8,540	8,459	8,293	+4.9
All other foods, except fats and oils	19,628	19,466	19,537	+0.8	-0.4	+0.7	20,582	19,505	18,630	20,160	+2.1
Tobacco products	5,155	5,149	5,160	+0.1	-0.2	-0.9	5,001	4,805	4,645	5,577	-10.3
Textile mill products	10,122	10,030	10,026	+0.9	0.0	-0.8	9,974	10,086	10,163	10,116	-1.4
Broadwoven fabrics and other textiles	6,123	6,126	6,116	0.0	+0.2	-0.9	5,992	6,139	6,167	6,261	-4.3
Paper and allied products	16,085	15,928	16,009	+1.0	-0.5	-0.4	15,920	15,887	15,971	16,344	-2.6
Pulp, paper, and paperboard mill products	6,290	6,326	6,408	-0.6	-1.3	-1.0	6,213	6,300	6,350	6,666	-6.8
Paperboard containers and boxes	4,179	4,053	3,974	+3.1	+2.0	+0.8	4,172	4,041	3,981	4,198	-0.6
Miscellaneous converted paper products	5,616	5,549	5,627	+1.2	-1.4	-0.5	5,535	5,546	5,640	5,480	+1.0
Chemicals and allied products	46,601	46,619	46,848	0.0	-0.5	+0.6	45,981	46,588	47,019	45,777	+0.4
Industrial chemicals	19,222	19,214	19,404	0.0	-1.0	+1.5	19,185	19,218	19,444	20,148	-4.8
Drugs, soaps, and toiletries	21,515	21,512	21,523	0.0	-0.1	-0.3	21,231	21,787	21,929	20,203	+5.1
Petroleum and coal products	11,849	11,588	11,144	+2.3	+4.0	+3.1	12,078	11,728	11,275	10,867	+11.1
Rubber and plastics products	17,462	17,261	17,050	+1.2	+1.2	+0.9	17,144	17,085	17,061	16,270	+5.4
All other nondurable goods	27,260	27,297	27,282	-0.1	+0.1	-0.2	27,717	28,176	28,445	28,804	-3.8

^p Preliminary. ^r Revised.

See note at end of table 2 relating to survey error and revision.

**Table 5. VALUE OF MANUFACTURERS' SHIPMENTS AND NEW ORDERS
FOR TOPICAL SERIES¹
(Millions of dollars)**

Industry	Seasonally adjusted						Not seasonally adjusted ²						
	Monthly			Percent Change			Monthly				Percent change	Year to date	
	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Aug.-Sept.	July-Aug.	June-July	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Sept. 1998		1999 ^p	1998
SHIPMENTS													
All manufacturing industries	358,874	361,844	357,301	-0.8	+1.3	+0.7	383,967	363,407	320,282	364,324	+5.4	3,158,908	3,018,261
Market categories :													
Automotive equipment	16,682	16,909	16,809	-1.3	+0.6	-0.9	17,898	17,352	10,180	16,275	+10.0	145,856	128,097
Home goods and apparel	19,694	20,051	20,035	-1.8	+0.1	+2.0	21,998	21,249	18,725	21,064	+4.4	178,274	169,656
Consumer staples	75,551	75,085	74,010	+0.6	+1.5	-0.1	79,925	76,810	71,795	73,983	+8.0	654,070	618,574
Machinery and equipment	67,997	70,348	69,036	-3.3	+1.9	+1.2	75,238	66,796	57,136	73,262	+2.7	604,627	569,900
Business supplies	26,939	26,885	26,701	+0.2	+0.7	+0.7	28,121	27,108	25,331	26,584	+5.8	236,292	228,261
Construction materials and supplies	23,496	23,594	23,376	-0.4	+0.9	+0.3	24,996	24,830	23,137	23,183	+7.8	207,947	195,163
Defense products	6,666	6,678	6,785	-0.2	-1.6	+3.4	7,058	6,454	6,022	7,368	-4.2	59,810	60,978
Other materials, supplies and and intermediate products	121,849	122,294	120,549	-0.4	+1.4	+0.9	128,733	122,808	107,956	122,605	+5.0	1,072,032	1,047,632
Durable goods industries :													
Nondefense capital goods ³	54,812	57,287	56,095	-4.3	+2.1	+3.0	61,662	53,421	48,646	59,943	+2.9	486,112	456,809
Excluding aircraft and parts	47,338	47,915	48,774	-1.2	-1.8	+5.0	53,734	44,621	42,377	50,929	+5.5	412,576	389,916
Defense capital goods ⁴	6,403	6,468	6,584	-1.0	-1.8	+4.9	6,776	6,213	5,750	7,093	-4.5	57,532	57,931
Durables excluding capital goods	140,894	141,954	140,589	-0.7	+1.0	+0.2	150,539	143,589	116,853	142,000	+6.0	1,243,543	1,169,170
Miscellaneous series :													
Producers' durable equipment	130,976	134,795	133,226	-2.8	+1.2	+1.2	142,638	131,678	106,291	137,399	+3.8	1,166,090	1,088,257
Household durable goods	10,291	10,642	10,585	-3.3	+0.5	+3.1	11,520	10,707	9,206	10,549	+9.2	92,310	82,855
Information technology industries	27,061	27,719	28,928	-2.4	-4.2	+8.5	32,084	25,409	24,338	30,210	+6.2	236,055	217,263
Health care equipment and products	13,350	13,285	13,063	+0.5	+1.7	-1.9	14,811	13,009	12,061	13,782	+7.5	116,340	106,357
NEW ORDERS													
All manufacturing industries	361,094	364,440	359,903	-0.9	+1.3	+2.5	380,446	365,069	328,590	359,884	+5.7	3,167,374	3,012,093
Market categories :													
Automotive equipment	16,700	16,945	16,797	-1.4	+0.9	-1.1	17,872	17,422	10,218	16,288	+9.7	145,978	127,974
Home goods and apparel	19,778	20,041	20,081	-1.3	-0.2	+2.6	21,998	21,071	19,021	21,051	+4.5	179,078	169,612
Consumer staples	75,467	75,285	74,014	+0.2	+1.7	-0.2	79,589	77,047	72,218	73,786	+7.9	654,853	618,983
Machinery and equipment	69,819	69,020	68,011	+1.2	+1.5	+4.9	76,289	65,412	56,557	73,983	+3.1	599,154	576,545
Business supplies	26,785	27,116	26,729	-1.2	+1.4	+0.9	27,652	27,393	25,580	26,378	+4.8	237,116	228,823
Construction materials and supplies	23,094	23,479	23,499	-1.6	-0.1	0.0	24,466	24,637	23,265	22,793	+7.3	208,182	195,198
Defense products	5,425	5,254	6,709	+3.3	-21.7	+22.2	5,459	3,950	5,475	7,945	-31.3	53,663	54,069
Other materials, supplies and and intermediate products	124,026	127,300	124,063	-2.6	+2.6	+3.3	127,121	128,137	116,256	117,660	+8.0	1,089,350	1,040,889
Durable goods industries :													
Nondefense capital goods ³	56,353	56,423	55,030	-0.1	+2.5	+8.0	63,088	52,455	47,804	60,062	+5.0	480,613	461,493
Excluding aircraft and parts	49,287	47,770	48,763	+3.2	-2.0	+9.5	55,568	44,374	42,589	53,569	+3.7	417,070	393,961
Defense capital goods ⁴	5,013	5,048	6,476	-0.7	-22.1	+24.3	4,996	3,667	5,066	7,529	-33.6	51,197	51,157
Durables excluding capital goods	143,366	145,975	144,026	-1.8	+1.4	+2.2	148,574	148,040	125,670	137,706	+7.9	1,261,502	1,166,038
Miscellaneous series :													
Producers' durable equipment	133,290	133,345	131,905	0.0	+1.1	+2.7	143,995	130,412	106,225	139,041	+3.6	1,160,707	1,094,072
Household durable goods	10,287	10,545	10,652	-2.4	-1.0	+3.8	11,490	10,575	9,557	10,576	+8.6	92,747	82,514
Information technology industries	28,028	27,202	28,962	+3.0	-6.1	+8.0	32,888	24,857	24,636	30,287	+8.6	238,337	219,347
Health care equipment and products	13,206	13,393	13,203	-1.4	+1.4	+3.4	14,452	13,354	12,524	13,797	+4.7	116,360	107,590

^p Preliminary. ^r Revised.

¹ Topical series are regroupings of the separate industry categories.

² Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

³ Nondefense capital goods industries include : ordnance and accessories; steam, gas and hydraulic turbines; internal combustion engines; construction, mining, and mate handling equipment; metalworking machinery; special industry machinery; general industrial machinery; computer and office equipment; refrigeration, heating and serv industry machinery; electrical transmission and distribution equipment; electrical industrial apparatus; communications equipment; aircraft, missiles, space vehicles, and engi and parts; ships and tank components; railroad equipment; and search and navigation equipment.

⁴ Defense capital goods industries include : ordnance and accessories; communications equipment; aircraft, missiles, space vehicles, and engines and parts; ships, ta and tank components; and search and navigation equipment.

See note at end of table 2 relating to survey error and revision.

**Table 6. VALUE OF MANUFACTURERS' UNFILLED ORDERS AND TOTAL INVENTORIES
FOR TOPICAL SERIES¹
(Millions of dollars)**

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Sept. 99/98
	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Aug.- Sept.	July- Aug.	June- July	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Sept. 1998	
UNFILLED ORDERS											
All manufacturing industries	525,482	523,262	520,666	+0.4	+0.5	+0.5	521,503	525,024	523,311	525,390	-0.7
Market categories :											
Automotive equipment	2,548	2,529	2,493	+0.8	+1.4	-0.5	2,527	2,553	2,474	2,364	+6.9
Home goods and apparel	9,029	8,946	8,956	+0.9	-0.1	+0.5	9,115	9,115	9,293	8,513	+7.1
Consumer staples	2,813	2,897	2,697	-2.9	+7.4	+0.1	3,045	3,382	3,145	2,458	+23.9
Machinery and equipment	235,812	233,990	235,318	+0.8	-0.6	-0.4	235,106	234,054	235,429	249,387	-5.7
Business supplies	7,219	7,373	7,142	-2.1	+3.2	+0.4	7,344	7,813	7,529	6,994	+5.0
Construction materials and supplies	17,525	17,926	18,042	-2.2	-0.6	+0.7	17,475	18,004	18,198	17,661	-1.1
Defense products	86,321	87,562	88,985	-1.4	-1.6	-0.1	84,769	86,367	88,871	90,636	-6.5
Other materials, supplies and and intermediate products	164,215	162,039	157,033	+1.3	+3.2	+2.3	162,122	163,736	158,372	147,377	+10.0
Durable goods industries :											
Nondefense capital goods ³	252,212	250,671	251,535	+0.6	-0.3	-0.4	251,591	250,165	251,123	265,900	-5.4
Excluding aircraft and parts	111,700	109,751	109,896	+1.8	-0.1	0.0	111,079	109,245	109,484	107,217	+3.6
Defense capital goods ⁴	90,988	92,378	93,798	-1.5	-1.5	-0.1	89,378	91,158	93,704	95,442	-6.4
Durables excluding capital goods	157,312	154,840	150,819	+1.6	+2.7	+2.3	155,247	157,212	152,718	139,770	+11.1
Miscellaneous series :											
Producers' durable equipment	274,887	272,573	274,023	+0.8	-0.5	-0.5	274,172	272,815	274,030	288,929	-5.1
Household durable goods	5,507	5,511	5,608	-0.1	-1.7	+1.2	5,598	5,628	5,760	5,442	+2.9
Information technology industries	41,349	40,382	40,899	+2.4	-1.3	+0.1	41,398	40,594	41,146	40,054	+3.4
Health care equipment and products	9,747	9,891	9,783	-1.5	+1.1	+1.5	9,645	10,004	9,659	9,697	-0.5
TOTAL INVENTORIES											
All manufacturing industries	465,346	464,351	465,043	+0.2	-0.1	+0.5	464,876	467,794	466,518	467,407	-0.5
Market categories :											
Automotive equipment	8,704	8,786	8,876	-0.9	-1.0	+0.7	8,688	9,023	9,024	8,332	+4.3
Home goods and apparel	31,618	31,452	31,515	+0.5	-0.2	+0.3	31,652	32,030	32,439	32,046	-1.2
Consumer staples	74,830	74,649	74,397	+0.2	+0.3	+0.2	75,345	74,512	73,540	73,120	+3.0
Machinery and equipment	116,102	115,663	116,962	+0.4	-1.1	+0.5	115,603	117,242	117,099	119,884	-3.6
Business supplies	28,395	28,227	28,231	+0.6	0.0	+0.2	28,709	28,515	28,551	28,721	0.0
Construction materials and supplies	29,693	29,592	29,438	+0.3	+0.5	+0.8	29,527	29,662	29,585	28,578	+3.3
Defense products	18,408	18,238	18,324	+0.9	-0.5	+1.3	18,636	18,589	18,710	18,677	-0.2
Other materials, supplies and and intermediate products	157,596	157,744	157,300	-0.1	+0.3	+0.7	156,716	158,221	157,570	158,049	-0.8
Durable goods industries :											
Nondefense capital goods ³	107,504	107,353	108,390	+0.1	-1.0	+0.4	107,211	109,022	108,615	112,209	-4.5
Excluding aircraft and parts	72,450	72,409	71,949	+0.1	+0.6	+0.3	72,102	73,773	72,516	71,233	+1.2
Defense capital goods ⁴	18,796	18,596	18,608	+1.1	-0.1	+1.7	19,072	18,999	19,022	19,007	+0.3
Durables excluding capital goods	166,426	166,512	166,507	-0.1	0.0	+0.6	165,820	167,725	167,356	164,517	+0.8
Miscellaneous series :											
Producers' durable equipment	190,140	189,001	190,148	+0.6	-0.6	+0.5	189,583	191,376	191,124	192,300	-1.4
Household durable goods	16,335	16,248	16,308	+0.5	-0.4	+0.4	16,333	16,511	16,634	16,350	-0.1
Information technology industries	33,740	33,484	32,871	+0.8	+1.9	+0.1	33,655	34,575	33,393	32,468	+3.7
Health care equipment and products	20,451	20,489	20,488	-0.2	0.0	+0.4	20,257	20,800	20,766	19,413	+4.3

See footnotes at end of table 5.

See note at end of table 2 relating to survey error and revision.

**Table 7. VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION,
BY INDUSTRY GROUP**
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Sept. 99/98
	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Aug.- Sept.	July- Aug.	June- July	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	Sept. 1998	
MATERIALS AND SUPPLIES											
All manufacturing industries	154,246	153,426	153,915	+0.5	-0.3	+0.6	154,758	153,694	154,458	156,325	-1.0
Durable goods industries	92,995	92,531	92,918	+0.5	-0.4	+1.0	93,782	93,290	93,582	93,880	-0.1
Stone, clay, and glass products	3,267	3,246	3,204	+0.6	+1.3	+0.4	3,296	3,276	3,205	3,157	+4.4
Primary metals	7,447	7,397	7,393	+0.7	+0.1	+0.5	7,597	7,468	7,412	8,193	-7.3
Fabricated metal products	10,739	10,583	10,537	+1.5	+0.4	+0.9	10,836	10,618	10,579	10,884	-0.4
Industrial machinery and equipment	20,103	19,875	19,959	+1.1	-0.4	-0.2	20,300	20,159	20,090	19,933	+1.8
Electronic and other electrical equipment	16,161	16,112	16,420	+0.3	-1.9	+3.2	16,209	16,367	16,793	15,612	+3.8
Transportation equipment	15,258	15,209	15,406	+0.3	-1.3	+0.9	15,286	15,205	15,662	15,596	-2.0
Instruments and related products	9,126	9,152	9,075	-0.3	+0.8	+0.7	9,162	9,281	9,117	9,267	-1.1
Lumber, furniture and miscellaneous durable goods	10,894	10,957	10,924	-0.6	+0.3	+0.7	11,096	10,916	10,724	11,238	-1.3
Nondurable goods industries	61,251	60,895	60,997	+0.6	-0.2	+0.1	60,976	60,404	60,876	62,445	-2.4
Food and kindred products	11,413	11,513	11,543	-0.9	-0.3	-0.4	11,208	11,214	11,342	11,244	-0.3
Tobacco products	4,564	4,555	4,568	+0.2	-0.3	-0.6	4,449	4,333	4,209	4,857	-8.4
Textile mill products	2,949	2,875	2,828	+2.6	+1.7	-1.6	2,902	2,873	2,872	2,922	-0.7
Paper and allied products	7,807	7,713	7,713	+1.2	0.0	+0.1	7,795	7,679	7,668	8,042	-3.1
Chemicals and allied products	15,286	15,303	15,654	-0.1	-2.2	+1.2	15,257	15,261	15,784	15,605	-2.2
Petroleum and coal products	3,426	3,280	3,262	+4.5	+0.6	+0.4	3,426	3,270	3,288	3,240	+5.7
Rubber and plastics products	7,101	7,045	6,916	+0.8	+1.9	+0.9	7,089	6,975	6,968	6,807	+4.1
Apparel, printing and publishing and leather goods	8,705	8,611	8,513	+1.1	+1.2	-0.7	8,850	8,799	8,745	9,728	-9.0
WORK IN PROCESS											
All manufacturing industries	145,366	145,232	147,073	+0.1	-1.3	+0.3	145,784	147,284	147,799	151,584	-3.8
Durable goods industries	115,288	115,260	116,737	0.0	-1.3	+0.6	115,560	117,387	117,417	122,089	-5.3
Stone, clay, and glass products	1,530	1,516	1,469	+0.9	+3.2	+1.1	1,504	1,535	1,486	1,306	+15.2
Primary metals	8,056	8,121	8,166	-0.8	-0.6	-0.4	8,065	8,185	8,283	8,582	-6.0
Fabricated metal products	9,022	8,970	8,969	+0.6	0.0	0.0	9,119	9,083	9,062	9,082	+0.4
Industrial machinery and equipment	21,425	21,582	21,839	-0.7	-1.2	+0.6	21,382	22,067	21,890	22,802	-6.2
Electronic and other electrical equipment	13,858	14,057	14,119	-1.4	-0.4	-0.3	13,773	14,366	14,232	14,017	-1.7
Transportation equipment	45,635	45,435	46,856	+0.4	-3.0	+1.2	45,961	46,239	46,821	51,213	-10.3
Instruments and related products	10,140	10,024	9,926	+1.2	+1.0	+0.3	10,045	10,276	10,185	9,749	+3.0
Lumber, furniture and miscellaneous durable goods	5,622	5,555	5,393	+1.2	+3.0	+0.3	5,711	5,636	5,458	5,338	+7.0
Nondurable goods industries	30,078	29,972	30,336	+0.4	-1.2	-0.7	30,224	29,897	30,382	29,495	+2.5
Food and kindred products	6,099	6,109	6,137	-0.2	-0.5	-0.1	6,126	5,637	5,636	5,575	+9.9
Tobacco products	80	78	82	+2.6	-4.9	0.0	85	76	78	107	-20.6
Textile mill products	2,412	2,420	2,473	-0.3	-2.1	-0.7	2,425	2,429	2,491	2,660	-8.8
Paper and allied products	1,679	1,664	1,662	+0.9	+0.1	-0.5	1,650	1,671	1,670	1,546	+6.7
Chemicals and allied products	8,906	8,860	9,122	+0.5	-2.9	-1.8	8,791	8,953	9,314	8,584	+2.4
Petroleum and coal products	2,906	2,854	2,639	+1.8	+8.1	+2.4	2,976	2,905	2,636	2,663	+11.8
Rubber and plastics products	2,283	2,260	2,305	+1.0	-2.0	-0.5	2,280	2,258	2,280	2,205	+3.4
Apparel, printing and publishing and leather goods	5,713	5,727	5,916	-0.2	-3.2	-1.1	5,891	5,968	6,277	6,155	-4.3
FINISHED GOODS											
All manufacturing industries	165,734	165,693	164,055	0.0	+1.0	+0.6	164,334	166,816	164,261	159,498	+3.0
Durable goods industries	84,443	84,670	83,850	-0.3	+1.0	+0.3	82,761	85,069	83,994	79,764	+3.8
Stone, clay, and glass products	4,919	4,964	4,800	-0.9	+3.4	+1.1	4,746	4,881	4,823	4,586	+3.5
Primary metals	8,096	8,142	8,134	-0.6	+0.1	+0.2	8,005	8,133	8,102	8,137	-1.6
Fabricated metal products	11,455	11,475	11,499	-0.2	-0.2	+1.5	11,084	11,348	11,557	10,865	+2.0
Industrial machinery and equipment	18,681	18,533	17,993	+0.8	+3.0	-0.9	18,070	18,492	17,773	17,690	+2.1
Electronic and other electrical equipment	11,190	11,035	10,682	+1.4	+3.3	-2.2	10,931	11,295	10,807	10,223	+6.9
Transportation equipment	9,916	10,224	10,141	-3.0	+0.8	+1.1	9,918	10,483	10,229	9,126	+8.7
Instruments and related products	7,847	7,884	7,929	-0.5	-0.6	+3.3	7,901	8,034	7,974	7,529	+4.9
Lumber, furniture and miscellaneous durable goods	12,339	12,413	12,672	-0.6	-2.0	+0.8	12,106	12,403	12,729	11,608	+4.3
Nondurable goods industries	81,291	81,023	80,205	+0.3	+1.0	+0.8	81,573	81,747	80,267	79,734	+2.3
Food and kindred products	20,574	20,396	20,339	+0.9	+0.3	+0.2	21,624	20,842	19,968	21,100	+2.5
Tobacco products	511	516	510	-1.0	+1.2	-4.0	467	396	358	613	-23.8
Textile mill products	4,761	4,735	4,725	+0.5	+0.2	-0.4	4,647	4,784	4,800	4,534	+2.5
Paper and allied products	6,599	6,551	6,634	+0.7	-1.3	-0.9	6,475	6,537	6,633	6,756	-4.2
Chemicals and allied products	22,409	22,456	22,072	-0.2	+1.7	+1.2	21,933	22,374	21,921	21,588	+1.6
Petroleum and coal products	5,517	5,454	5,243	+1.2	+4.0	+5.1	5,676	5,553	5,351	4,964	+14.3
Rubber and plastics products	8,078	7,956	7,829	+1.5	+1.6	+1.3	7,775	7,852	7,813	7,258	+7.1
Apparel, printing and publishing and leather goods	12,842	12,959	12,853	-0.9	+0.8	+0.6	12,976	13,409	13,423	12,921	+0.4

^p Preliminary. ^r Revised.

See notes at end of table 2 relating to sources, errors and revisions.

Table 8. RATIOS OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP
(Based on seasonally adjusted data)

Industry	Inventory / Shipments ratio				Unfilled Orders / Shipments ratio ¹			
	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	June 1999	Sept. 1999 ^p	Aug. 1999 ^r	July 1999	June 1999
All manufacturing industries	1.30	1.28	1.30	1.30	2.58	2.53	2.55	2.57
Durable goods industries	1.45	1.42	1.44	1.45	3.02	2.95	2.98	3.01
Stone, clay, and glass products	1.09	1.10	1.10	1.10	0.69	0.70	0.73	0.74
Primary metals	1.54	1.56	1.59	1.61	2.10	2.10	2.11	2.09
Fabricated metal products	1.53	1.49	1.52	1.50	1.31	1.29	1.31	1.31
Industrial machinery and equipment	1.60	1.55	1.52	1.60	2.26	2.15	2.10	2.20
Electronic and other electrical equipment	1.16	1.17	1.17	1.20	2.14	2.04	1.94	1.93
Transportation equipment	1.45	1.39	1.48	1.44	8.75	8.23	8.96	8.78
Instruments and related products	1.85	1.87	1.88	1.82	3.15	3.23	3.28	3.23
Nondurable goods industries	1.10	1.10	1.11	1.11	0.66	0.67	0.65	0.65
Food and kindred products	0.90	0.91	0.92	0.90	(X)	(X)	(X)	(X)
Tobacco products	1.21	1.21	1.21	1.23	(X)	(X)	(X)	(X)
Textile mill products	1.56	1.54	1.53	1.57	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.16	1.14	1.18	1.19	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.33	1.33	1.36	1.35	(X)	(X)	(X)	(X)
Petroleum and coal products	0.75	0.76	0.77	0.79	(X)	(X)	(X)	(X)
Rubber and plastics products	1.28	1.25	1.27	1.24	(X)	(X)	(X)	(X)

^p Preliminary. ^r Revised. (X) Not applicable. (NA) Not available.

¹ Excludes the following industries with no unfilled orders : Wood and lumber products; glass containers; metal cans, barrels and drums; farm and garden machinery; motor vehicle assembly operations; other transportation equipment; foods and related products; tobacco; knitting mill products; apparel and related products; chemicals; petroleum and coal products; and rubber and plastics products.

Table 9. REVISIONS TO PREVIOUSLY PUBLISHED MONTHLY PERCENT CHANGES
(Based on seasonally adjusted data)

Industry	Shipments			New orders			Unfilled orders			Inventories		
	Sept. ¹ 1999	Sept. ² 1994-1998	Sept. 1998-Aug. 1999	Sept. ¹ 1999	Sept. ² 1994-1998	Sept. 1998-Aug. 1999	Sept. ¹ 1999	Sept. ² 1994-1998	Sept. 1998-Aug. 1999	Sept. ¹ 1999	Sept. ² 1994-1998	Sept. 1998-Aug. 1999
All manufacturing industries	(X)	0.1	0.1	(X)	0.2	0.2	(X)	0.0	0.1	(X)	0.1	0.0
Durable goods industries	0.1	0.2	0.2	0.0	0.2	0.4	-0.1	0.0	0.1	(X)	0.1	0.0
Stone, clay, and glass products	(X)	0.6	0.4	(X)	0.7	0.5	(X)	0.4	0.5	(X)	0.1	0.2
Primary metals	0.1	0.2	0.2	0.1	0.9	0.8	0.0	0.4	0.3	(X)	0.1	0.0
Fabricated metal products	(X)	0.3	0.2	(X)	0.5	0.5	(X)	0.2	0.3	(X)	0.2	0.1
Industrial machinery and equipment	-1.0	0.5	0.4	-1.1	0.6	0.3	0.0	0.2	0.1	(X)	0.1	0.1
Electronic and other electrical equipment	0.8	0.3	0.4	0.9	0.5	1.2	0.2	0.2	0.6	(X)	0.2	0.2
Transportation equipment	0.6	0.7	0.6	-0.3	1.0	0.9	-0.1	0.1	0.1	(X)	0.2	0.2
Instruments and related products	(X)	0.5	0.6	(X)	1.8	1.3	(X)	0.4	0.4	(X)	0.2	0.1
Nondurable goods industries	(X)	0.2	0.1	(X)	0.2	0.1	(X)	0.4	0.2	(X)	0.1	0.1
Food and kindred products	(X)	0.3	0.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.2	0.1
Tobacco products	(X)	0.0	0.0	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.0	0.1
Textile mill products	(X)	0.3	0.3	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	0.0	0.1
Paper and allied products	(X)	0.3	0.2	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	0.2	0.1
Chemicals and allied products	(X)	0.4	0.3	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.1	0.1
Petroleum and coal products	(X)	0.1	0.5	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.4	0.6
Rubber and plastics products	(X)	0.2	0.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.2	0.2
Capital goods industries :												
Nondefense	0.3	0.5	0.3	0.1	0.5	0.5	-0.1	0.1	0.1	(X)	0.0	0.1
Defense	0.9	1.0	0.6	-2.1	1.4	4.5	0.0	0.1	0.3	(X)	0.4	0.2

(X) Not applicable. (NA) Not available.

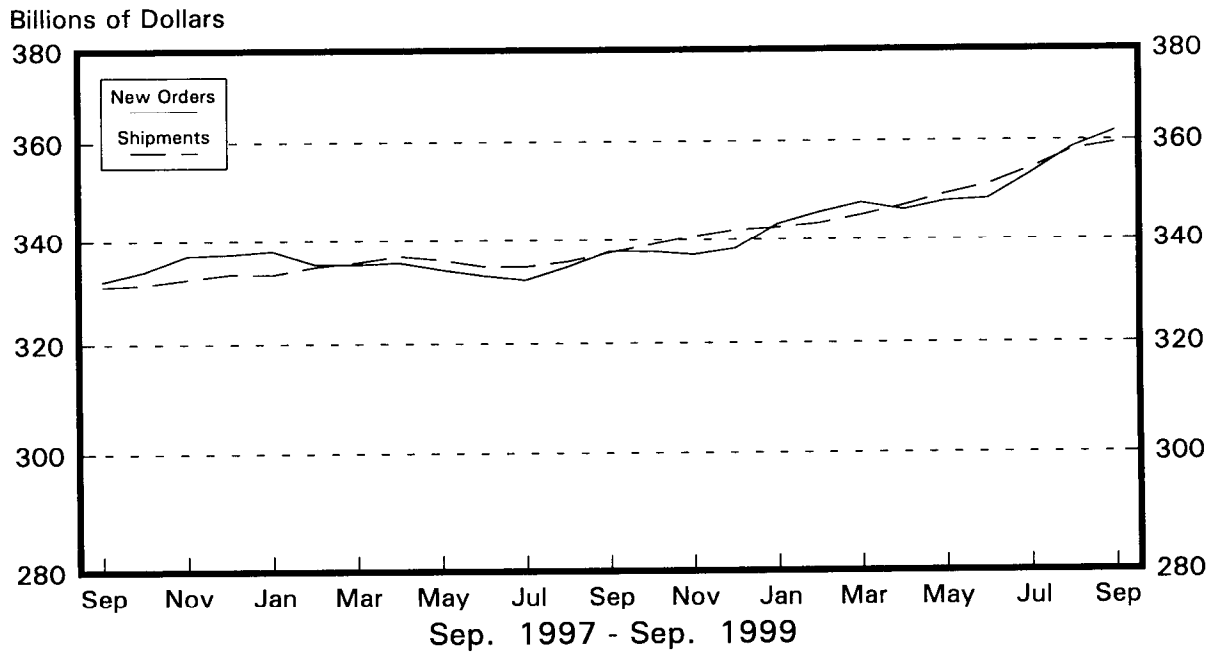
Note : The five year and the twelve month revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the absolute values of the differences for the months specified. The advance to final percent change revisions for the durable goods industries are shown in the advance report for the month.

¹ The current month revisions are the difference between the advance percent change and the percent change as shown in this publication.

² Average for this month for the last five years.

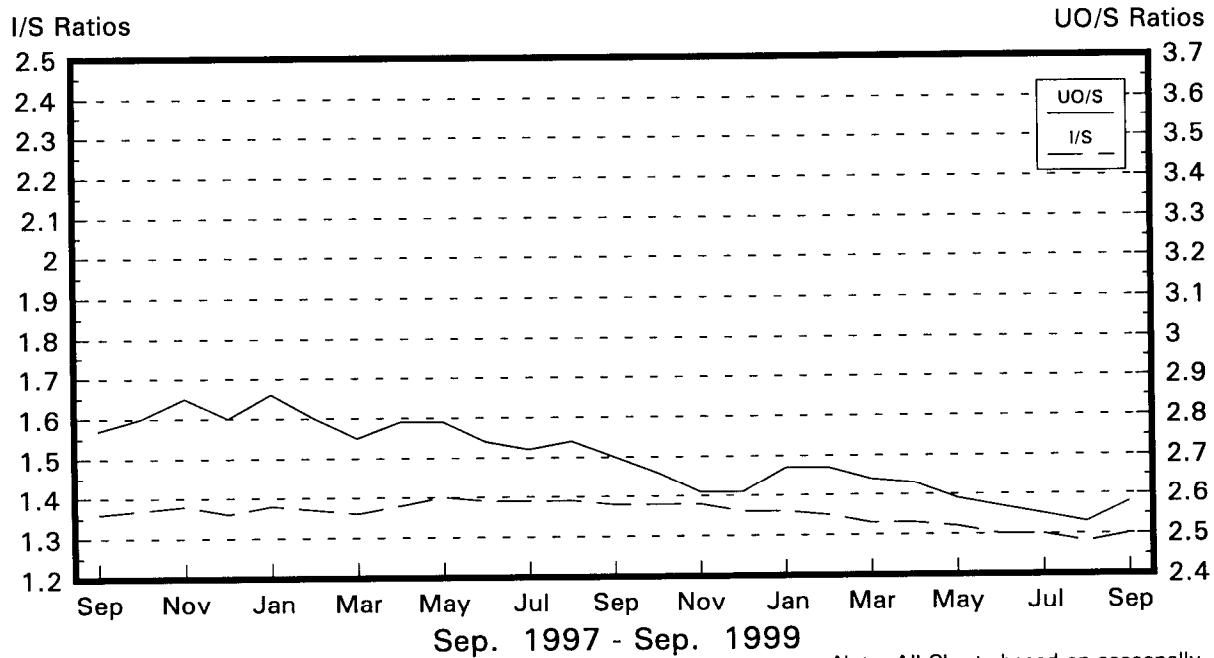
Total Manufacturing

New Orders and Shipments
Three Month Moving Averages



Total Manufacturing

Ratio of Unfilled Orders and
Inventories to Shipments



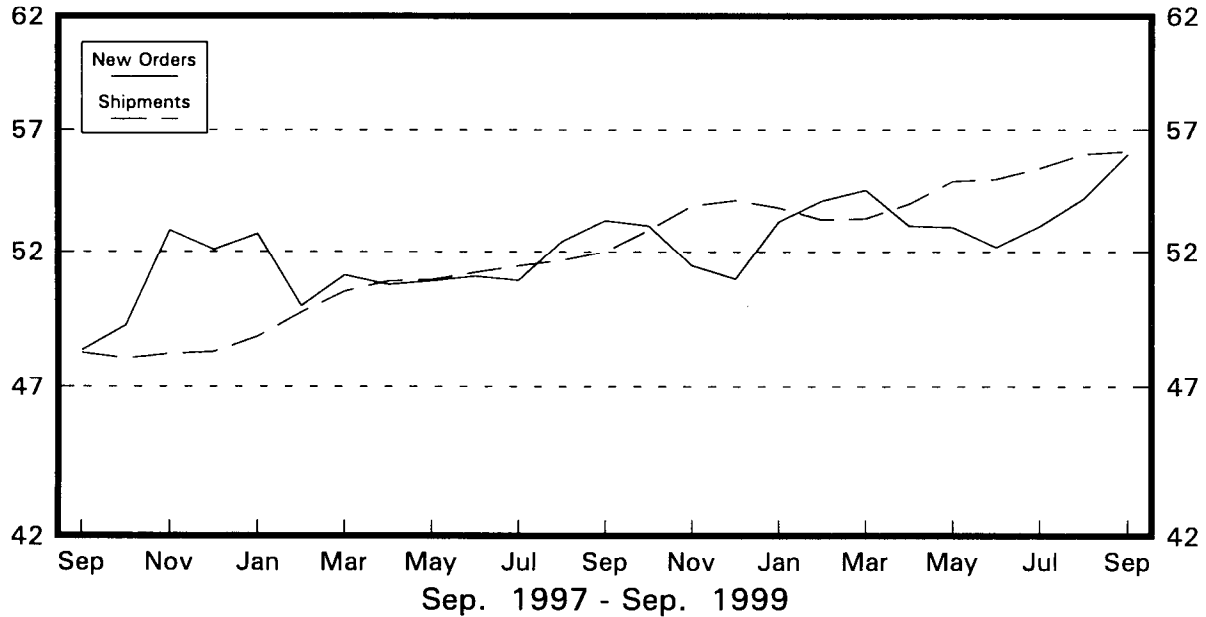
Note: All Charts based on seasonally adjusted current dollars.

Nondefense Capital Goods

11

New Orders and Shipments
Three Month Moving Averages

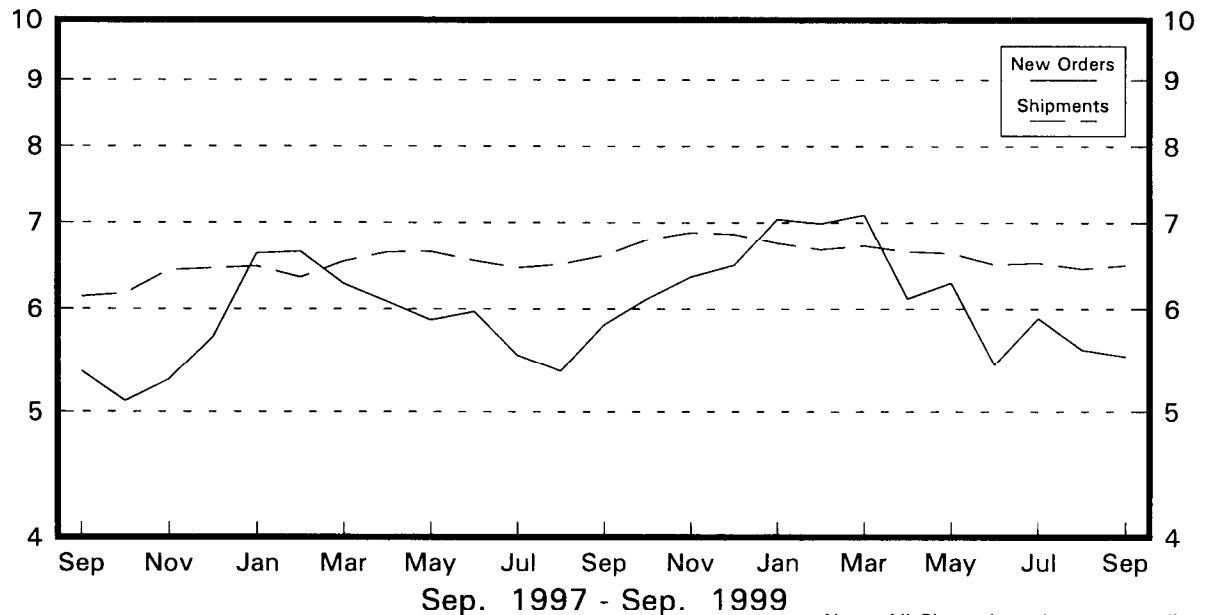
Billions of Dollars



Defense Capital Goods

New Orders and Shipments
Three Month Moving Averages

Billions of Dollars



Note: All Charts based on seasonally adjusted current dollars.